

### Abstract

The invention relates to a self-boosting electromechanical friction brake, having a friction brake lining, which is displaceable for actuation in the direction of rotation of a brake disk and is braced on a ramp (26), via a roller body (28). When the friction brake is actuated, a rotating brake disk exerts a frictional force on the friction brake lining pressed against it, which urges the friction brake lining in the direction of an increasingly narrower gap between the ramp and the brake disk and as a result exerts a contact pressure in addition to a contact pressure exerted by an actuation device. The self-boosting action is attained as a result. To prevent the roller body (28) from sliding on the ramp (26), the invention provides a positive controller, for instance with a gear wheel (38) on the roller body (28) that meshes with racks (40, 42). (Fig. 3)